144.015
1630 GMT
Sat Eme
60°

Amateur Radio Station LOG

AMERICAN RADIO RELAY LEAGUE

NEWINGTON, CONNECTICUT, U.S.A.

CALL SIGN

~~FL31~~

~~VP5S~~

2M/432

VP5D

6 MEGS

Book No.

From 11 | 89

To

$2.50 U.S.
$3.50 Elsewhere

OPTIONAL

ATTACH PHOTOCOPY OF YOUR LICENSE HERE.

IMPORTANT—FILL THIS OUT

CALL SIGN _____

Station Location _____
(Street Address)

_____
(City/Town)

_____ _____
(State/Province) ZIP/PC (Country)

Time entries are in (check one): ☐ Coordinated Universal Time (UTC)

☐ _____ Time

Operator's Signature _____

EMISSION TYPES

The FCC has issued an elaborate list of emission designators. For convenience, the following common abbreviations may be used instead.

CXR	Steady, unmodulated pure carrier
CW	Telegraphy on pure continuous wave
MCW	Tone-modulated telegraphy
SSB	Single-sideband suppressed carrier
AM,DSB	Double sideband with full, reduced or suppressed carrier
FAX	Facsimile
FM	Frequency or phase modulated telephony
RTTY	Radioteletype
AMTOR	Time Diversity radioteletype
DATA	Packet radio, telecommand, telemetry
P	Pulse
TV or SSTV	Television or slow-scan television

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ABOUT THIS LOG

THE ARRL UNIVERSAL LOG

Many radio amateurs keep a detailed log of their on-the-air activities. Such facilitates confirmation of QSL requests, investigation of potential TVI/RFI complaints, and detection of unauthorized use of your call sign. A neat accurate log is a matter of personal pride with the active radio amateur.

The ARRL Universal Log suits every type of amateur operation: DXing, contests, ragchews. The left-hand segment of the log sheet contains generally **fixed** information which is not subject to change between contacts. This includes DATE, FREQ, MODE, and POWER. Consult the inside cover for mode designation. The power should be indicated in watts output.

The right-hand segment of the log sheet contains the **variable** items that will change from contact to contact. This includes TIME (UTC recommended and indicated on inside cover), call sign of the STATION WORKED, and RST REPORT SENT and RECEIVED. The TIME OFF column may also be used to log EXCHANGE information for state QSO Parties and contests for which separte log sheets are not used. This column is located adjacent to the REPORT RECEIVED to facilitate this use. Otherwise, the station operator may use this column to log TIME OFF for ragchews and casual contacts. The COMMENTS column may be used for QTH, NAME, and QSL infomration, or any other information that the operator wishes to note. The COMMENTS column should also be used to indicate any variation from the standard information required on the inside cover. A checkmark will indicate QSL send and receive.

Be sure to fill out the information on the inside cover.

LOG REQUIREMENTS

There is no longer any requirement that radio amateurs keep a record of their operations in a station logbook. On an individual basis the FCC may require a record of station operations to assure compliance with its rules. Information pertaining to specialized operations such as repeater, auxiliary and remote control still have to be kept as station records. Consult ARRL's *FCC Rule Book* for details.

We are still encouraged to keep records of our operations. This is especially true of experiments and activities that may contribute to the state-of-the-art. There are practical as well as sentimental reasons for keeping a log. The following information may be entered:

1) The call sign of the station, the signature of the station licensee, or a photocopy of the station license.

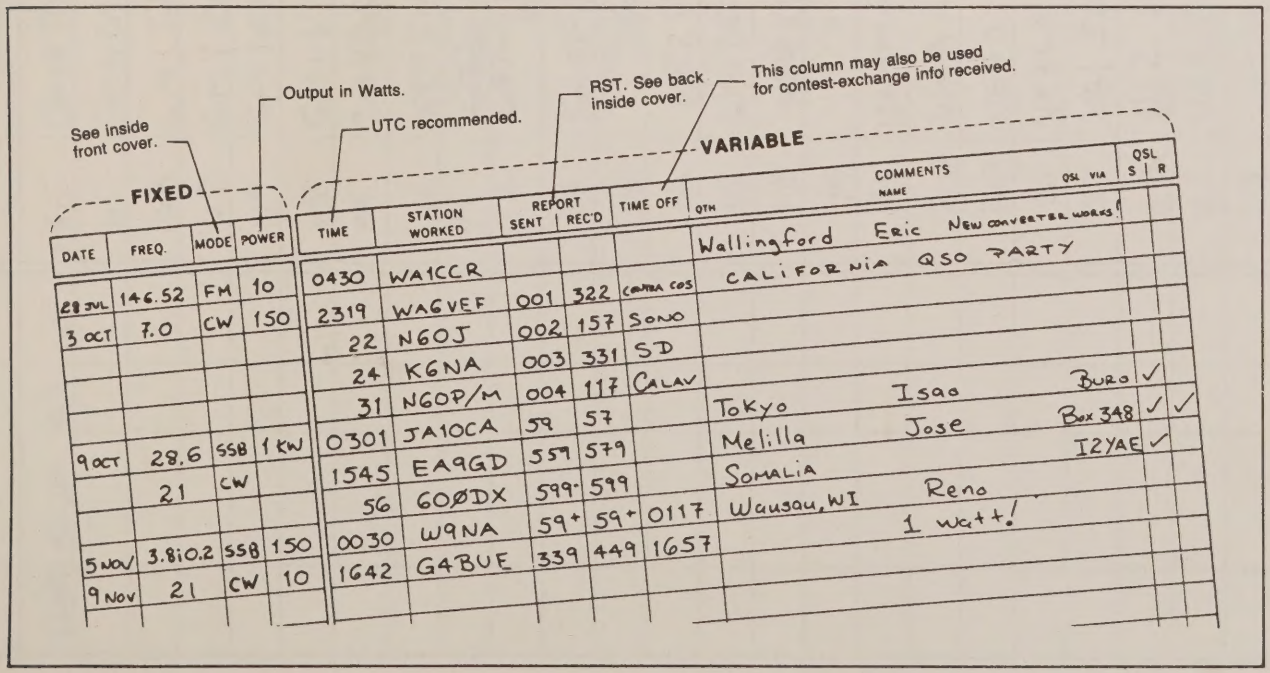
2) The locations and dates upon which fixed operation of the station was indicated and terminated. If applicable, the location and dates upon which portable operation was initiated and terminated at each location.

3) The date and time periods the control operator for the station was other than the station licensee, and the signature and primary station call sign of that control operator.

4) A notation of third-party traffic sent or received including names of all third parties, and a brief description of the traffic content.

AVAILABILITY OF LICENSE

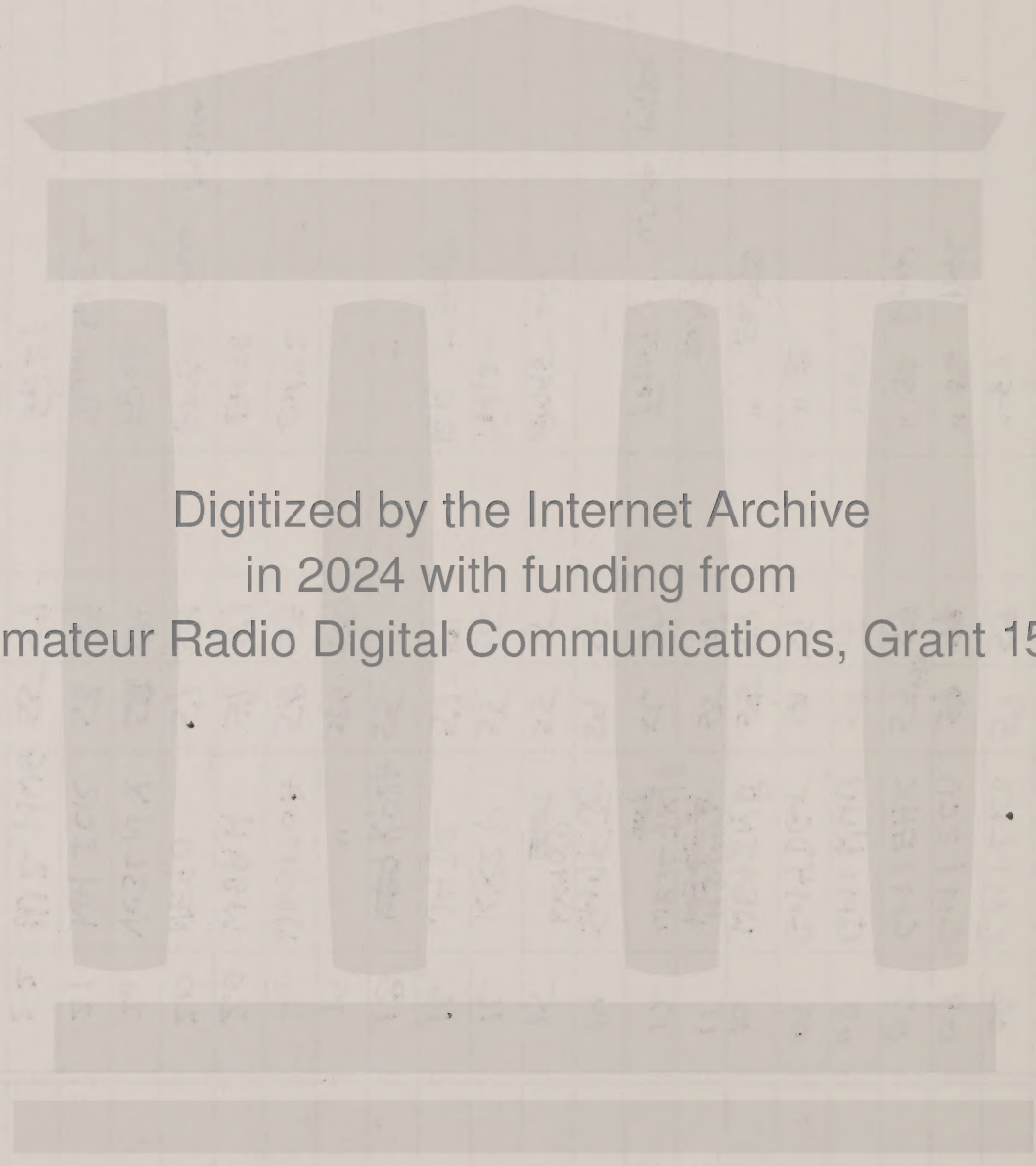
You must have your original license (or a photocopy) with you when you are operating mobile, portable, or guest-operating at another station. At your own station location your may post your license (or a photocopy) near the operating position in lieu of having it on your person. A convenient place is provided on the inside cover of this logbook for attaching a photocopy of your license. If you are guest-operating, you must have available for inspection the station license (or a photocopy) for that station, in addition to your own operator's license.



STATION NOTES:

DATE	FREQ.	MODE	POWER
11/30/89	50.111	SSB	100

TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
1405	GM8B2X	59	59		JO86		
05	GM4DMA	59	59		" 87		
06	GM1LKD	57	59		" 87		
07	GM1ZCD	~~59~~	~~59~~		" 86 PHIL		
07	GM1EHK	59 +30	59		" 86 DAVE		
08	GM1KHU	59	59		" 87		
09	GM4DGT	59	59		" 86		
10	WB9JNB	55	54		" EN50		
11	~~K3YAP~~ ~~W3CCE~~	55	57		EN92		
12	WB3CJK/B ~~CG~~	52	57		FM09 WVa MIKE		
14	SM7FJE	59	59		-		
15	KK4NO ~~EM~~	55	55		EM95-SC		
16	KR2P	55	55		FN12-		
16	W4DR	57	59		BOB - FM17		
18	~~K~~KP2A	55			-		
19	"	559	559				
20	WA8MOA	58	59		EN72		
20	W8AH	57	57		EM98		
20	NE90	57	59		EM69 FND MIKE		
20	VE3LNX	~~58~~	59		FN03		
21	KA1ICR	58	59		PAUL FN52		
22	W2HWG	55	57		FN21		
22	VE3CPU	55	55		FN03		
24	VE3BGH	55	55		FN03 LON		
24	VE3BDS	55	55		FN14 FRANK		



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DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
11/30				1425	KGHM B	57	56		FM11C		
				26	WB3FWR	57	57		FN11		
				26	K8HFX	56	57		EN74 - JACK		
				27	WW8M	58	59		EN72		
				28	W8CMS	57	57		EN91		
				29	K2AN	58	59		FN02 HOW ARE U		
					K2						
				29	K1JRW	58	55		FN82 RICK		
			<	181.3 CW - S?							
				1915V - NS							
				2156V - ZD8 229					HC5K		
12/01				0224V - ZD8 559		FM7 57					
				0335V - FM7 57							
				0420V - " 55					aOL/MS TCJ		
				1245V - ZB2 119 - W1C 60-90°		1 3 BIS	1301V 559 HC5K 90°		a1 INNL		
				1413V - 15.30° / GM6EGZ 55		1 BIS IK2P2A	VE1YX / 1532 WB8IGY / K3MCD /		50.0W0(+) FM 229 063° - BCN W3KD BIGS / K1NFE 719	N W° B	
				1542V - W5 3/5 ? WX		125.4	110 GM6EWX 33	K1NFE	339 (30-45°)	RF CC1 GP	
				1545 GM6EWX		59 +20DB	59		FOG7 CoGm	W aD aPL	
				<K3MW 22> GB3RMK - FM		059.2	339			W3KD 5/9a	L
				2140V - NS E OR W					RM 0		
				↳ ZL2337 NS V					GB3RMK		
12/02				0410V - NS							
				1145 - VE1YX / 1226V - G5ON		58 BIS 45/40	TO559 GB3VHF 229 30 DU500 - AC50° STOKE Sca. / FN12 / FO67 / F /				
				1240V - DL3ZM / 445		559 E3					
				1413V - " "		594	+ FM Bryan Bird		Gnel 045 +/-		

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
12/02	1504V - DC32m/445			2259	MS						
	1613V - NS										
	1929V - DC32m/445			599							
	2121V - NS										
	2253V - ZD8			559							
12/03	0108V - ZD8 119				FY7 CT9 ST2O						
	1145V (GL5 AO - NS?)										
	↳ 1346V - NS										
	1933V - ? 13003				N6AMG						
12/04	0017V - ZD8 229				FY7 TO 25 dB/9				+44/P4		
	1210V (WICAW 5D 108.8)				HC5K BKS 105V 1216V				(NOS)		
12/10	1309V - WICAW 114 (NOS)										
	1736V - AO WB5TUK 315° - 35/36/37 →				285° - 126						
	June 1830 TU			12/11/89							
12/11	2129V — NS (41.9 short)				063.2						
	2321V - NS										
12/12	1210V - NS —			1430V NS - 1600V NS		2000V NS		2240V NS			
12/13	0022V - NS										
	1456V - NS										
	2222V - ~~ES~~ ZD8			339							
	2357V - NS								QSL-		
12/14	1245V - NS	1330V NS		1514V NS	-30°						
12/15	0004V - NS	1440V - NS		1201V - AO T7B 99.1 - 070 2 - T12NA 559				- 98.6	NGTI 2NG TI		
	1845V EB WB, 063 - N4AA			2130V - N4LTA, 1-2 - W3VP / K1NFE /				WB5U - 065 - 013			

IOTA NOW 10W N4LTA/W3 C7IJ W9 FO/BCN

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
									FB 1 R SR8 ucc 100.5		
12/5	144.2W	SSB	1W	2215	WA4PGM	57	54		FM07 Va W9LKFO K RNCN QSO		
				2216	W1AJR/8	57	57		ENG! Ohio SR QSL -		
				2233	N4LFX	56	55		FM06 - GreensBoro NC Gary		
				2235	NK4Q	56	59		EM96 -		
				2241	WD4MBE	58	59		EM96		
12/16	0404V - NS										
	1310V - NS		1415V	NS							
	1444V - QIQ		GB3SQV 229	/1600V - NS							
	1630V - GB3SIX		339	/1926V - W 6.7		155.3 / 129.8 / 146.2		2107V - WK7S LSTD 2130(+)	N4GBK - NGU VERY WELL SIX C IA MI AS TO UC LIT OFF SAG WASOKA BONNER 7 4 V OF W·2VN LL & YORN CC LBUNGTIRSC RIO ZLC XCL UP 2S		
	1708V - KA2RDU		59 ES 110								
				(1708 KA2RDU)							
12/17	0327V - NS		/1226V	NS	/1314V NS	/1350V NS			7F1		
	2300V - NS								WA7VSW/N7DB/KGMAC/W7FTV/		
12/18	0125V - NS		/1330V NS	/1238V NS					KP7M CX 124.8 2108 /129.5/		
	2247V - ZD8		229 /						W7IK 163.7 142.4 / W7HAH-MT 134.9		
12/19	0232V - NS		/1330V NS	/1609V NS	/2120V NS						
12/20	0323V - NS		/1504V NS	/2200V NS							
12/21	1315V - NS		/1800V NS								
12/23	1555V - AØ		0404V	330? -							
12/24	1524 NS										
12/25	1300V NS		/1713V NS	2030V NS							
12/26			2300V NS								
12/28	1910 NS										
12/29	1745 NS										

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
12/29	1935V	W4 FMN		7.65	F2 + Es — both sides				073° NN7K / Oregon		
	2211V	NS									
12/30	0207V	NS									
	1546	SSB	100	1546	WAØCSL	59	59		EN17 — ND — Mary		
				1549	KAØKKO	59	59		EN26 — MN — Matt Park Rapids, MN.		
				1557	NW7O	55	55		DM26 — NV		
				1551	W1XE/0	57	59		DM39 — Colo. George		
				1552	Ve4KQ	57	59		EN19 —		
				1552	KØCJ	57	55		EN34 —		
				1553	WØNRi	56	54		DM79 Fremont Colo.		
				1553	W4iOB	55	55		DM (Ga)		
				1625	WA7KHO	59	59		— — TUM Montana		
				1626	VO2GD	33	59		FO62		
					0645 28CWS — (DM25) WD72 / Ve5ZY 150 CW / WGXJ / WGJKV						
				1756	0682 KGFV 559-579 /						
				1758	WGJKV	579			V290A		
				1759	KGMYC	579			Mike		
				1801	WGRXQ	55	55		CM87		
				1801	WH2ABO	55	55		CM97		
				1802	WAGOiB	55	58		DM06 Ken		
				1802	WBGiTM	58	58		DM06		
	1905 NS	/ 2005 NS		/ 2059 NS	/ 2230V NS	/ 2305V NS					
12/31	1227 NS			559 + 110	SSB (FM?) (gone 13N)						
	1402V	2,3,4, Vel 1308	1230 — FM?	1401	0853 V29OA	all 70-80°					
				1419	FC1LNC W7KNS FM?	59	57		JOVO4		
				1429	FGEPE	44	52		JN28		

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
12/31	500	SSB	100	1437	WA7JTM	59	59				
					~~EI~~ CM				DM91 Mike		
				1443	FD1FLN	59	59		JN45		
					~~F6 F~~				JN05		
				1445	F6 FGF	59	59		JN05 Mike		
				1446	FC1GTU	57	55		JN05		
				1447	W7CI	57	59		DM41 A3 - Steve		
				1448	W7RV	59	59		A3 - Jimmy		
				1453	M5 ~~JHV~~	59	59		Dave NM 130		
				1454	F5QT	57	57		JN03 Jean Paul		
				1456	~~F~~ 8MP	~~56~~	59		Ci V (F8MP) 3el 300 watts /		
				1504	N5FLV	55	59		DM72 NM		
				<1510 WB4UUJ BIKS /							
				1516	FC1JG	59	59		JN23 (14.145)		
				1526	K1SC/7	59	59		- Sindy -		
				<1610 0647 WD7Z /							
	12/31	50.106.9		1715					VP9RV, ALSO K6 stations - East of L.A.		
1990	1/01	50.1		0334	FY7 57-9 /	0505	NS		Poss. KPH / BAD AUDIO / 13 KPH / E?		
				1310	110 BKS? - 80° A -						
				1320	122² AØ ON/OFF/75° //				FY7 1ST IN 225		
				1515	NS / 1601 - WC2K BKS				+ WK GS + BKS 4S /		
						49.4	N3		1610 - W7 + KG4 BKS		
				1617	W6XJ	59	59				
				1618	KCGEDP	57	59		DM04		
				1620	WA7TUX	57	5~~7~~		DM31 -		
					~~WA 05B~~						
				23	KE7OI	57	59		DM31 - Dan		
				24	KB6CO	59	59		DM07 - Gary		

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	QTH / COMMENTS / NAME / QSL VIA	QSL S	QSL R
				24	~~KØ~~CL	59			DM69		
				24	KIWVE	59	59		EN35 PWG		
				27	NØ ~~ZA~~ ~~DE~~ ~~AND~~	59			DM GG		
				27	KE7 ~~OI~~ ~~EAR~~	59			DN31 UTAH		
				28	WØ, JR	59	59		CL DM79		
				29	KXØO	59	59		CL.		
				30	WØBJ	59			DN91 ~~DB~~.		
				30	KE7NS	59	59		DN41		
				30	K6KUQ	59			DM06		
				31	KB6CO	59			DM07 LARRY		
				32	K7NV	59			DM16 JUN XU		
				32	AA7A ~~NE7~~	59			DM43 A3		
				33	N5EPA	59			DM75 - NM		
				33	KC7IJ	59			DM44 -		
				35	KØCL	59			DM69 -		
				35	WA7FPO	59	59		DM34 Glenn		
				36	N6RMJ	59			DM14 -		
				39	N6VI	59			MARK -		
				38	K6HHJ	59			LARRY		
				39	K6PVS	59			DM14		
					~~EW6~~						
				40	KØGS	59			DM14		

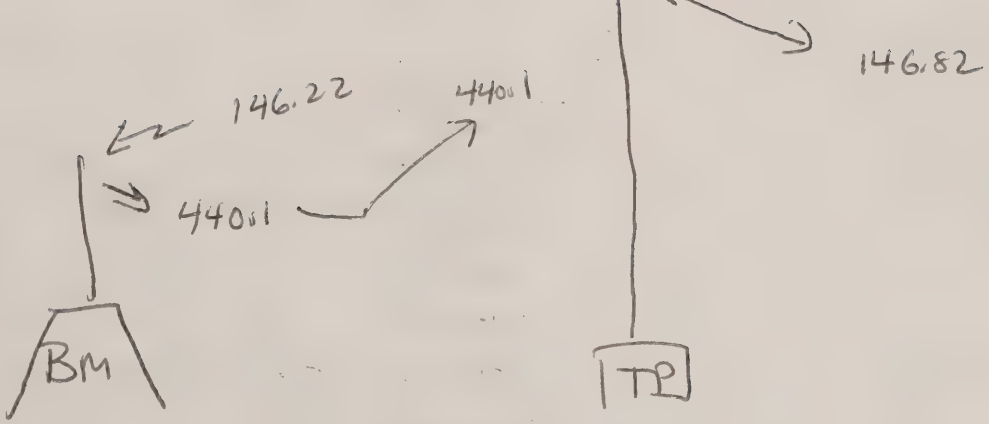
DATE	FREQ.	MODE	POWER

TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
6 40	KG6EDP	59			BISHOP DM04		
41	K6GMV	59			[illegible] DM14		
42	W6YLZ	59			MILL		
43	W7RV	59			DM43		
43	K6ODV	59			DM13 ED		
43	K6BU	59			DM04		
44	N6CA	59			DM03		
44	AA6DD	59			DM13		
44	WA7YWM	59	55		DM33		
45	NW7O	59			DM26 NV.		
46	WA7KMM	59			W4J		
46	W7JF	59			KEN MIMI DN55		
47	K6MIO	59			AZ JIM		
47	K8NFO	59			EN90		
48	KN8B	59			EN80		
48	W6QCV	59			DM04 —		
49	N6MA	59			DM04 - PAUL		
49	K6STI	59			DM13 - BRIAN		
50	N6KHT	59			DM03 - [illegible]		
51	WA6BYA	59	8		CM87 - BOB		
51	K8NXI	59	9		EN90 —		
52	N7AMA	59			DM33 —		
53	WA7JUO	59			DM26 - SAM		
54	WØNRI	59	54		DM79		
54	AI0Z/Ø	59			DM79		

— GG

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
	.149 9			1654	K7ICW	59	59		DM26		
					— END GG —				(45 in 22 minutes)		
			<	1747 V NS	> <1852 V	N4LJA	QSL 559				
				1854	KA7MCX	57	59		CN87 JON —		
				1855	K7TRE	57	57		CN87 3 —		
				1855	KD7PY	57					
				1856	WA5UUD	59					
				1856	KA7GUX	59	57		DN17 idaho —		
				1858	KD7PY	57	53		CN87 WN		
					~~HAR~~						
				1859	VE7XF	53	53		CN89		
				1900	VE6BCC	58	59		DO33 EDMONTON Ernie —		
					~~BIF~~						
				1902	VE6BEU	59	58		KEN — "		
				1904	K7KV	59	58		CN87		
				1904	N7EIJ	56	56		DN17 idaho		
				<2323 V	- ZD8 339	2244 119					
1/02/89	0107 V - NS / 0207 V NS			0239 V NS / 0322 NS / 11:31 NS / 13:00 NS / 1630 NS / 2124 NS /							
1/03/89	0214 V - FY7 339 / PY2 33 / 0310 V NS										
1/03 —	2239 ZD8 229 / -										
1/04 —	0041 - FY7 599 / 2330 V - FY7 229			0212 V - PY2, / 1252 V		122 ?	A0 -75 -80 V		/ 1630 NS		
1/5	1315 NS / 1515 NS			1545 NS / QSY 1/06 TO 1/ 0400							
	NEW QTH — Long Bay										

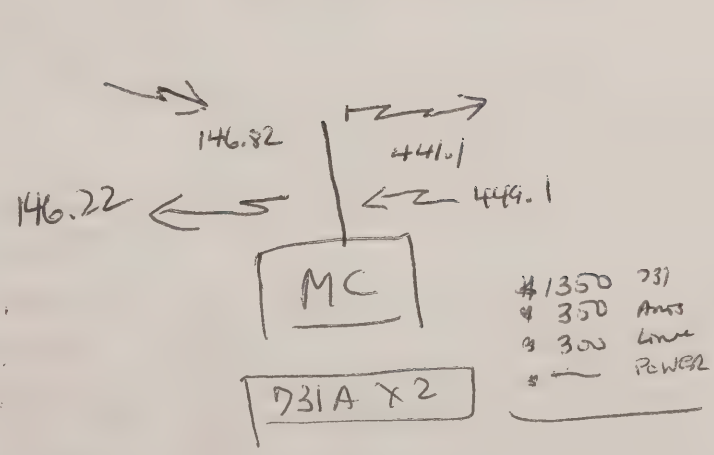
DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
1/10/90	50.104	SSB	100	0029	W3IFM	59					
				0030	WB2IFC/4	59					
				0030	WE4N	59					
				0031	WR4S	59			JOHN		
				2150Z —	ZD8 229 /						
				2340Z —	FY7 59+05						
1/12/90	1137 NS / 1705 NS										
1/13/90		1800 NS									
1/15/90	2200 NS / 2343 NS				P42DSC 57 /						
1/16/90	1130 NS / => 1530 NS — 2330 NS										
1/17/90	0020 —	P42 57							— FZ6PD		
1/20/90	50.110	SSB	100	2041	WB4WTC	X 59	59	Roger	EM95 (High-Wedge		
			2042	X	KA4YMY	59	59	/Steve/	K02 A06 MODERATE /	1KBGORIC	
				2045	N4TEJ	57	57		(SC)		
				2047	WB4NTC	55	58		EM95		
				<0698	N4LTD 335>						
1/24/90	7.160	SSB	100	1230	VP5GT	59 +15	59		NE 25/3U		
					VP5AB	+15					
					VP5BAM	+25					
					VP5WM	+30					
					VP5JM	+25			24S/12/03 — 04UN flyer		
					N4UAU/CL						
					VP5 VOE						
					VP5BG						

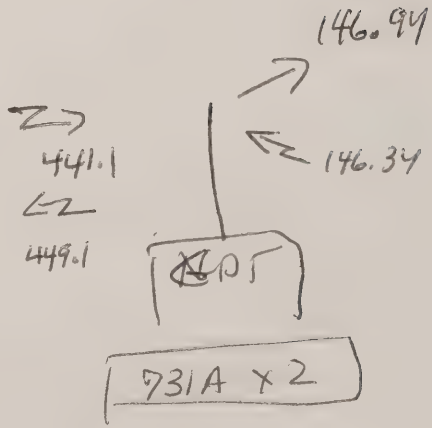


LOCAL OR EAST - use 146.22 TR

LOCAL OR WEST
use 146.94 TR

EAST OR WEST 146.82





DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
1/21/90 — 2230 — NS											
1/26 0258 - FM7 -				NV flutter							
S2 TU SS+				0347 gone							
1/28	50.110	SSB	1W	0308	CE3BEZ	55	57		Pedro - CE3EZ (Juan Fernandez) Manuel 1B - 002 TO 25?h		
				0312	CE3 OK	55	55		VICTOR - + OSCAR 13		
			<	0337 -	HC2FG 339	FLUTTER	>				
				1230Z	VP5GT	2					
					VP5BAM	2					
					VP5JM						
					VP5LJ				ZPG DW		
					VP5 UNI				PY2DSC		
					" LAJ						
					" VAF	(2)					
					NH4AM/CCA						
					VP5HL	(2)					
2/6											
2/7	2332U - ZP6 329			F47 579							
2/08	0105U - ZP6/PY1CX + FM7 579			0105 FM7 579				035 - 579 020 44, OMs	0140		
	1230 - 0468 - PJ7MF 6 mas										
	2350 - PY1 59			VP5	B						
2/11/90	—	7.160		GT	VP5AM	VP5GC	AB	LJ	LAJ		
	2330T - PY1CX			0193							
2/12/90	2321T - PY										

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH FL3I NAME QSL VIA	QSL S	QSL R
2/19/10	0130 A-	4S	AL4	WFAA (TOCX8)							
2/12 —											
2/19	0258	FT7	559	SLW QSB							
2/20	134 - VY WK 110 E/SE CW										
	2324 LU1VIC SLW QSB - NOTE										
2/21	FF50/LU8440	57	FB	1808							
2/22	1223 WK AP 120° - Poss. Fsic -.040 -										
	1207 - LU8AYO 53										
2/23	0100 - WK LUs — Hvy Flutter										
2/24	0038 - CX8BE										
	2223 - LU1 57										
2/25	—			1230	BAM						
					GT				(9L1US - 50.110 | 50.064		
					LAJ						
					WM						
					LJ						
					BG				86 CONTACTS		
	1448 - 9L1US 030 CW 339			LOTS OF BUMPS NO (1J1) STATIONS WKG					E. CANADA. WGXJ		
	WGXJ 579 1600 W7KI 559 1290A 1608										
2/27	0110A - CX1, OTHERS TE										
	1256 - 040 SSB/QSY AG										

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
	1295 TT										
2/28	0397	QSB	Connie								
3/0	23 WJT — LU4 FA			59							
3/22	2218 - VK3ZJ?			CW 110							
3/23	1452 - LU5		TU 59								
3/24	0021 — LU8		57 — SLW QSB								
3/25	0050	LU5	33 EZT	CW 110							
	7.160		100	1230	VP5LJ ✓				2232		
					VP5BAM ✓						
					VP5AB ✓						
					5GT ✓						
					5AT ✓				Austin Thomas		
					5WM ✓						
					5PC ✓						
					5BG ✓						
					5LAJ ✓						
					(5GT)						
3/28	5001W	SSB	100	1333	LU4AEA	55	53		Jorge - GF05 (Tom WK LUS)		
	1935 ✓ - LU4		2 TO	6 S >							
				2003	LU2DEK	59	59		Thomas - GF02 TANDIL -		
			2012	(104)	W5YY - 220° / W5FF // 2057 - 117.7 CW / KN55 240° /				KN55		
3/29			<2250		5/DCK 5/7 // 3/4 2031 / 2049 LU8YYO — 59 ZL2KT — 55 THIN						
	0125			2057	ZL2KS	57	54		Ray W5FF 8		
4/01	12W				VP5AT			VP5PC	VP5LAJ		
					VP5AB			VP5BG	VP5JM		
					VP5WM			VP5VVV	VP5BAM		
					VP5LJ			G4SHB Hugh			

120 OF THE FEDERAL COMMUNICATIONS ACT OF 1924

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
4/01	.110			1905	ZL1AKW	55	57		RF82 Dove (CX8BE QSO 57 Some Fred)		
									(KB6SL/KC4W Santiago, Chile 718-459)		

Allocation of International Call Signs

Call Sign Series	*Allocated to*
AAA-ALZ	United States of America
AMA-AOZ	Spain
APA-ASZ	Pakistan
ATA-AWZ	India
AXA-AXZ	Australia
AYA-AZZ	Argentina
A2A-A2Z	Botswana
A3A-A3Z	Tonga
A4A-A4Z	Oman
A5A-A5Z	Bhutan
A6A-A6Z	United Arab Emirates
A7A-A7Z	Qatar
A8A-A8Z	Liberia
A9A-A9Z	Bahrain
BAA-BZZ	China
CAA-CEZ	Chile
CFA-CKZ	Canada
CLA-CMZ	Cuba
CNA-CNZ	Morocco
COA-COZ	Cuba
CPA-CPZ	Bolivia
CQA-CUZ	Portugal
CVA-CXZ	Uruguay
CYA-CZZ	Canada
C2A-C2Z	Nauru
C3A-C3Z	Andorra
C4A-C4Z	Cyprus
C5A-C5Z	Gambia
C6A-C6Z	Bahamas
C7A-C7Z*	World Meteorological Organization
C8A-C9Z	Mozambique
DAA-DRZ	Federal Republic of Germany
DSA-DTZ	Republic of Korea
DUA-DZZ	Philippines
D2A-D3Z	Angola
D4A-D4Z	Cape Verde
D5A-D5Z	Liberia
D6A-D6Z	Comoros
D7A-D9Z	Republic of Korea
EAA-EHZ	Spain
EIA-EJZ	Ireland
EKA-EKZ	Union of Soviet Socialist Republics
ELA-ELZ	Liberia
EMA-EOZ	Union of Soviet Socialist Republics
EPA-EQZ	Iran
ERA-ESZ	Union of Soviet Socialist Republics
ETA-ETZ	Ethiopia
EUA-EWZ	Byelorussian Soviet Socialist Republic
EXA-EZZ	Union of Soviet Socialist Republics
FAA-FZZ	France
GAA-GZZ	United Kingdom of Great Britain and Northern Ireland
HAA-HAZ	Hungary
HBA-HBZ	Switzerland
HCA-HDZ	Ecuador
HEA-HEZ	Switzerland
HFA-HFZ	Poland
HGA-HGZ	Hungary
HHA-HHZ	Haiti
HIA-HIZ	Dominican Republic
HJA-HKZ	Colombia
HLA-HLZ	Republic of Korea
HMA-HMZ	Democratic People's Republic of Korea
HNA-HNZ	Iraq
HOA-HPZ	Panama
HQA-HRZ	Honduras
HSA-HSZ	Thailand
HTA-HTZ	Nicaragua
HUA-HUZ	El Salvador
HVA-HVZ	Vatican City
HWA-HYZ	France
HZA-HZZ	Saudi Arabia
H2A-H2Z	Cyprus
H3A-H3Z	Panama
H4A-H4Z	Solomon Islands
H6A-H7Z	Nicaragua
H8A-H9Z	Panama
IAA-IZZ	Italy
JAA-JSZ	Japan
JTA-JVZ	Mongolian People's Republic
JWA-JXZ	Norway
JYA-JYZ	Jordan
JZA-JZZ	Indonesia
J2A-J2Z	Djibouti
J3A-J3Z	Grenada
J4A-J4Z	Greece
J5A-J5Z	Guinea-Bissau
J6A-J6Z	Saint Lucia
J7A-J7Z	Dominica
J8A-J8Z	St. Vincent and the Grenadines
KAA-KZZ	United States of America
LAA-LNZ	Norway
LOA-LWZ	Argentina
LXA-LXZ	Luxembourg
LYA-LYZ	Union of Soviet Socialist Republics
LZA-LZZ	Bulgaria
L2A-L9Z	Argentina
MAA-MZZ	United Kingdom of Great Britain and Northern Ireland
NAA-NZZ	United States of America
OAA-OCZ	Peru
ODA-ODZ	Lebanon
OEA-OEZ	Austria
OFA-OJZ	Finland
OKA-OMZ	Czechoslovakia
ONA-OTZ	Belgium
OUA-OZZ	Denmark
PAA-PIZ	Netherlands
PJA-PJZ	Netherlands Antilles
PKA-POZ	Indonesia
PPA-PYZ	Brazil
PZA-PZZ	Suriname
P2A-P2Z	Papua New Guinea
P3A-P3Z	Cyprus
P4A-P4Z	Aruba
P5A-P9Z	Democratic People's Republic of Korea
QAA-QZZ	(Service abbreviations)
RAA-RZZ	Union of Soviet Socialist Republics
SAA-SMZ	Sweden
SNA-SRZ	Poland
SSA-SSM	Egypt
SSN-STZ	Sudan
SUA-SUZ	Egypt
SVA-SZZ	Greece
S2A-S3Z	Bangladesh
S6A-S6Z	Singapore
S7A-S7Z	Seychelles
S9A-S9Z	Sao Tome and Principe
TAA-TCZ	Turkey
TDA-TDZ	Guatemala
TEA-TEZ	Costa Rica
TFA-TFZ	Iceland
TGA-TGZ	Guatemala
THA-THZ	France
TIA-TIZ	Costa Rica
TJA-TJZ	Cameroon
TKA-TKZ	France
TLA-TLZ	Central African Republic
TMA-TMZ	France
TNA-TNZ	Congo
TOA-TQZ	France
TRA-TRZ	Gabon
TSA-TSZ	Tunisia
TTA-TTZ	Chad
TUA-TUZ	Ivory Coast
TVA-TXZ	France
TYA-TYZ	Benin
TZA-TZZ	Mali
T2A-T2Z	Tuvalu
T3A-T3Z	Kiribati
T4A-T4Z	Cuba
T5A-T5Z	Somalia
T6A-T6Z	Afghanistan
T7A-T7Z	San Marino
UAA-UQZ	Union of Soviet Socialist Republics
URA-UTZ	Ukrainian Soviet Socialist Republic
UUA-UZZ	Union of Soviet Socialist Republics
VAA-VGZ	Canada
VHA-VNZ	Australia
VOA-VOZ	Canada
VPA-VSZ	United Kingdom of Great Britain and Northern Ireland
VTA-VWZ	India
VXA-VYZ	Canada
VZA-VZZ	Australia
V2A-V2Z	Antigua and Barbuda
V3A-V3Z	Belize
V4A-V4Z	St. Christopher and Nevis
V8A-V8Z	Brunei
WAA-WZZ	United States of America
XAA-XIZ	Mexico
XJA-XOZ	Canada
XPA-XPZ	Denmark
XQA-XRZ	Chile
XSA-XSZ	China

Call Sign Series	*Allocated to*
XTA-XTZ	Burkina Faso
XUA-XUZ	Kampuchea
XVA-XVZ	Viet Nam
XWA-XWZ	Laos
XXA-XXZ	Portugal
XYA-XZZ	Burma
YAA-YAZ	Afghanistan
YBA-YHZ	Indonesia
YIA-YIZ	Iraq
YJA-YJZ	New Hebrides
YKA-YKZ	Syria
YLA-YLZ	Union of Soviet Socialist Republics
YMA-YMZ	Turkey
YNA-YNZ	Nicaragua
YOA-YRZ	Romania
YSA-YSZ	El Salvador
YTA-YUZ	Yugoslavia
YVA-YYZ	Venezuela
YZA-YZZ	Yugoslavia
Y2A-Y9Z	German Democratic Republic
ZAA-ZAZ	Albania
ZBA-ZJZ	United Kingdom of Great Britain and Northern Ireland
ZKA-ZMZ	New Zealand
ZNA-ZOZ	United Kingdom of Great Britain and Northern Ireland
ZPA-ZPZ	Paraguay
ZQA-ZQZ	United Kingdom of Great Britain and Northern Ireland
ZRA-ZUZ	South Africa
ZVA-ZZZ	Brazil
Z2A-Z2Z	Zimbabwe
2AA-2ZZ	United Kingdom of Great Britain and Northern Ireland
3AA-3AZ	Monaco
3BA-3AZ	Mauritius
3CA-3CZ	Equatorial Guinea
3DA-3DM	Swaziland
3DN-3DZ	Fiji
3EA-3FZ	Panama
3GA-3GZ	Chile
3HA-3UZ	China
3VA-3VZ	Tunisia
3WA-3WZ	Viet Nam
3XA-3XZ	Guinea
3YA-3YZ	Norway
3ZA-3ZZ	Poland
4AA-4CA	Mexico
4DA-4IZ	Philippines
4JA-4LZ	Union of Soviet Socialist Republics
4MA-4MZ	Venezuela
4NA-4OZ	Yugoslavia
4PA-4SZ	Sri Lanka
4TA-4TZ	Peru
4UA-4UZ*	United Nations Organization
4VA-4VZ	Haiti
4WA-4WZ	Yemen Arab Republic
4XA-4XZ	Israel
4YA-4YZ*	International Civil Aviation Organization
4ZA-4ZZ	Israel
5AA-5AZ	Libya
5BA-5BZ	Cyprus
5CA-5GZ	Morocco
5HA-5IZ	Tanzania
5JA-5KZ	Colombia
5LA-5MZ	Liberia
5NA-5OZ	Nigeria
5PA-5QZ	Denmark
5RA-5SZ	Madagascar
5TA-5TZ	Mauritania
5UA-5UZ	Niger
5VA-5VZ	Togo
5WA-5WZ	Western Samoa
5XA-5XZ	Uganda
5YA-5ZZ	Kenya
6AA-6BZ	Egypt
6CA-6CZ	Syria
6DA-6JZ	Mexico
6KA-6NZ	Republic of Korea
6OA-6OZ	Somalia
6PA-6SZ	Pakistan
6TA-6UZ	Sudan
6VA-6WZ	Senegal
6XA-6XZ	Madagascar
6YA-6YZ	Jamaica
6ZA-6ZZ	Liberia
7AA-7IZ	Indonesia
7JA-7NZ	Japan
7OA-7OZ	Yemen
7PA-7PZ	Lesotho
7QA-7QZ	Malawi
7RA-7RZ	Algeria
7SA-7SZ	Sweden
7TA-7YZ	Algeria
7ZA-7ZZ	Saudi Arabia
8AA-8IZ	Indonesia
8JA-8NZ	Japan
8OA-8OZ	Botswana
8PA-8PZ	Barbados
8QA-8QZ	Maldives
8RA-8RZ	Guyana
8SA-8SZ	Sweden
8TA-8YZ	India
8ZA-8ZZ	Saudi Arabia
9BA-9DZ	Iran
9EA-9FZ	Ethiopia
9GA-9GZ	Ghana
9HA-9HZ	Malta
9IA-9JZ	Zambia
9KA-9KZ	Kuwait
9LA-9LZ	Sierra Leone
9MA-9MZ	Malaysia
9NA-9NZ	Nepal
9OA-9TZ	Zaire
9UA-9UZ	Burundi
9VA-9VZ	Singapore
9WA-9WZ	Malaysia
9XA-9XZ	Rwanda
9YA-9ZZ	Trinidad and Tobago

*The series of call signs with an asterisk indicate the international organization to which they are allocated.

ARRL RECOMMENDED PRECEDENCES

Please observe the following ARRL provisions for PRECEDENCES in connection with written message traffic. These provisions are designed to increase the efficiency of our service both in normal times and in emergency.

Precedences

EMERGENCY Any message having life and death urgency to any person or group of persons, which is transmitted by Amateur Radio in the absence of regular commercial facilities. This includes official messages of welfare agencies during emergencies requesting supplies, materials or instruction vital to relief of stricken populace in emergency areas. During normal times, it will be **very rare.** On CW/RTTY, this designation will **always** be spelled out. When in doubt, do not use it.

PRIORITY Use abbreviation *P* on CW/RTTY. This classification is for a) important messages having a specific time limit b) official messages not covered in the emergency category c) press dispatches and emergency-related traffic not of the **utmost** urgency d) notice of death or injury in a disaster area, personal or official.

WELFARE This classification, abbreviated as *W* on CW/RTTY, refers to either an inquiry as to the health and welfare of an individual in the disaster area or an advisory from the disaster area that indicates all is well. Welfare traffic is handled only after all emergency and priority traffic is cleared. The Red Cross equivalent to an incoming Welfare message is DWI (Disaster Welfare Inquiry).

ROUTINE Most traffic in normal times will bear this designation. In disaster situations, traffic labeled Routine (*R* on CW/RTTY) should be handled last, or not at all when circuits are busy with higher precedence traffic.

NOTE: The precedence always follows the message number. For an example, a message number may be 207 *R* on CW and "Two Zero Seven Routine" on phone.

ARRL NUMBERED RADIOGRAMS

The letters ARL are inserted in the preample in the check and in the text before spelled out numbers, which represent texts from this list. Note that some ARL texts include insertion of numerals. *Example:* NR 1 R W1AW ARL 5 NEWINGTON CONN JUNE 1 DONALD R SMITH AA 164 EAST SIXTH AVE AA NORTH RIVER CITY MO AA PHONE 733 3968 BT ARRL FIFTY ARL SIXTY ONE BT DIANA AR. For additional information about traffic handling, consult *The ARRL Operating Manual.*

Group One—For Possible "Relief Emergency" Use

ONE	Everyone safe here. Please don't worry.
TWO	Coming home as soon as possible.
THREE	Am in _____ hospital. Receiving excellent care and recovering fine.
FOUR	Only slight property damage here. Do not be concerned about disaster reports.
FIVE	Am moving to new location. Send no further mail or communication. Will inform you of new address when relocated.
SIX	Will contact you as soon as possible.
SEVEN	Please reply by Amateur Radio through the amateur delivering this message. This is a free public service.
EIGHT	Need additional _____ mobile or portable equipment for immediate emergency use.
NINE	Additional _____ radio operators needed to assist with emergency at this location.
TEN	Please contact _____ . Advise to standy and provide further emergency information, instructions or assistance
ELEVEN	Establish Amateur Radio emergency communications with _____ on _____ MHz.
TWELVE	Anxious to hear from you. No word in some time. Please contact me as soon as possible.
THIRTEEN	Medical emergency situation exists here.
FOURTEEN	Situation here becoming critical. Losses and damage from _____ increasing.
FIFTEEN	Please advise your conditiona and what help is needed.
SIXTEEN	Property damage very severe in this are.
SEVENTEEN	REACT communications services also available. Establish REACT communications with _____ on channel _____.
EIGHTEEN	Please contact me as soon as possible at _____.
NINETEEN	Request health and welfare report on _____. (State name, address and telephone number.)
TWENTY	Temporarily stranded. Will need some assistance. Please contact me at _____.
TWENTY ONE	Search and Rescue assistance is needed by local authoriries here. Advise availability.
TWENTY TWO	Need accurate information on the extent and type of conditions new existing at your location. Please furnish this information and reply without delay.
TWENTY THREE	Report at once the accessibility and best way to reach your location.
TWENTY FOUR	Evacuation of residents from this area urgently needed. Advise plans for help.
TWENTY FIVE	Furnish as soon as possible the weather conditions at your location.
TWENTY SIX	Help and care for evacuation of sick and injured from this location needed at once.

Emergency/priority messages originating from official sources, must carry the signature of the originating official.

Group Two—Routine messages

FORTY SIX	Greetings on your birthday and best wishes for many more to come.
FIFTY	Greetings by Amateur Radio
FIFTY ONE	Greetings by Amateur Radio. This message is sent as a free public service by ham radio operators here at _____ . Am having a wonderful time.
FIFTY TWO	Really enjoyed being with you. Looking forward to getting together again.
FIFTY THREE	Received your _____ . It's appreciated; many thanks.
FIFTY FOUR	Many thaks for your good wishes.
FIFTY FIVE	Good news is always welcome. Very delighted to hear about yours.
FIFTY SIX	Congratulations on your _____ , a most worthy and deserved achievement.
FIFTY SEVEN	Wish we could be together.
FIFTY EIGHT	Have a wonderful time. Let us know when you return.
FIFTY NINE	Congratulations on the new arrival. Hope mother and child are well.
*SIXTY	Wishing you the best of everything on _____ .
SIXTY ONE	Wishing you a very merry Christmas and a happy New Year.
*SIXTY TWO	Greetings and best wishes to you for a pleasant _____ holiday season.
SIXTY THREE	Victory or defeat, our best wishes are with you. Hope you win.
SIXTY FOUR	Arrived safely at _____ .
SIXTY FIVE	Arriving _____ on _____ . Please arrange to meet me there.
SIXTY SIX	DX QSLs are on hand for you at the _____ QSL Bureau. Send _____ self addressed envelopes.
SIXTY SEVEN	Your message number _____ undeliverable because of _____ . Please advise.
SIXTY EIGHT	Sorry to hear that you are ill. Best wishes for a speedy recovery.

ARL NUMBERS SHOULD BE SPELLED OUT AT ALL TIMES

*Can be used for all holidays.

License Renewal Information

1) To renew your license, complete FCC Form 610 (available from ARRL HQ; SASE, please) being careful not to miss any applicable boxes or blanks that apply. Type or print neatly in pen. Only June 1984 and later editions of FCC Form 610 may be used.

2) Remember to attach a photocopy (or the original) of your license to the Form 610.

3) Mail your application to FCC, PO Box 1020, Gettysburg, PA 17326. There is no fee for renewing an amateur license.

4) Application to renew should be made approximately 90 days before expiration; however, renewal can be applied for at any time during the term of the license.

5) It's a good idea to retain a copy of your application as proof of filing before the expiration date of your license. If you filed *before* the license expiration date, you may continue to operate beyond the expiration date and until the new license arrives. Otherwise you may not operate until you receive a new license.

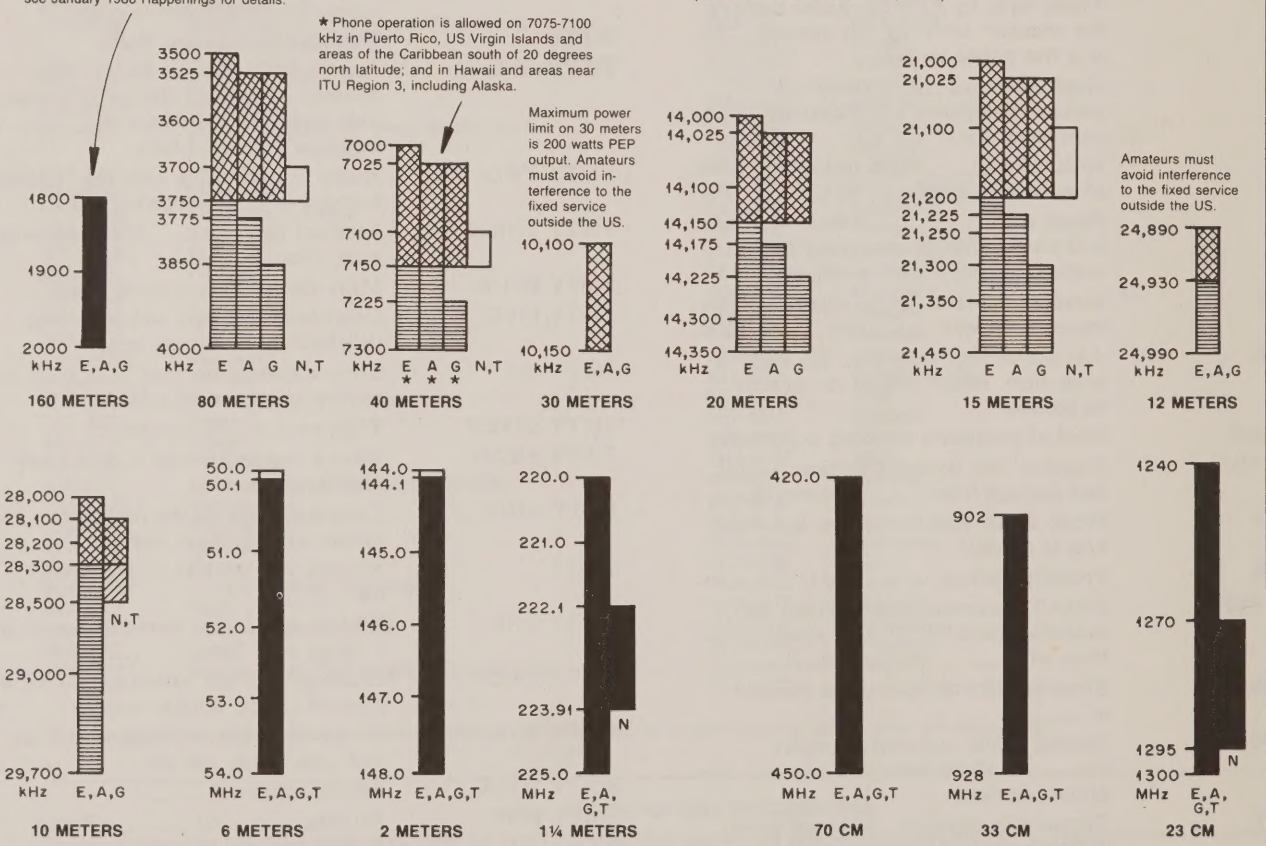
6) If your license has already expired, it is still possible to renew. The FCC allows a 5-year grace period, after the expiration date, for licenses with a 5-year term. (Note that the new ten-year term licenses, which have been issued since January 1984, have only a 2-year grace period before *both* the license and the call sign expire.) After two years of the grace period have elapsed, you will lose your call sign and be assigned a new one.

7) If you are simply modifying your license (change of address, for example), you must also fill out Form 610. Incidentally, your license will also be automatically renewed at this time.

8) If you have any questions or problems, drop a note to the Regulatory Information Branch, ARRL HQ.

US AMATEUR BANDS

(Effective 0001Z, March 21, 1987)



Operators with Technician class licenses and above may operate on all amateur bands above 50 MHz. For more detailed information see *The FCC Rule Book*.

5167.5 kHz Alaska emergency use only (SSB only) E, A, G, T, N

KEY

- □ = CW ONLY
- ▩ = CW, RTTY AND DIGITAL MODES
- ▤ = CW, VOICE, SSTV AND FAX
- ■ = CW, VOICE, SSTV, FAX AND RTTY
- ▨ = CW AND SSB

E = EXTRA
A = ADVANCED
G = GENERAL
T = TECHNICIAN
N = NOVICE

US AMATEUR POWER LIMITS

At all times, transmitter power should be kept down to that necessary to carry out the desired communications. Power is rated in watts PEP output. Unless otherwise stated, the maximum power output is 1500 W. Power for all license classes is limited to 200 W in the 10,100-10,150 kHz band and in all Novice subbands below 28,100 kHz. Novices and Technicians only are restricted to 200 W in the 28,100-28,500 kHz subband, In addition, Novices are restricted to 25 W in the 222.1-223.91 MHz subband and 5 W in the 1270-1295 MHz subband.

For the most up-to-date information, please check the latest edition of *The FCC Rule Book* or the "Happenings" column in *QST*.

INTERNATIONAL Q SIGNALS

A Q signal followed by a ? asks a question. A Q signal without the ? answers affirmatively, unless otherwise indicated.

QRA	What is the name of your station?
QRG	What's my exact frequency?
QRH	Does my frequency vary?
QRI	What is my signal intelligibility? (1-5)
QRL	Are you busy?
QRM	Is my transmission being interfered with?
QRN	Are you troubled by static?
QRO	Shall I increase transmitter power?
QRP	Shall I decrease transmitter power?
QRQ	Shall I send faster?
QRS	Shall I send slower?
QRT	Shall I stop sending?
QRU	Have you anything for me? (Answer in negative).
QRV	Are you ready?
QRW	Shall I tell.....you're calling him?
QRX	When will you call again?
QRZ	Who is calling me?
QSA	What is my signal strength? (1-5)
QSB	Are my signals fading?
QSD	Is my keying defective?
QSG	Shall I send.....messages at a time?
QSK	Can you work breakin?
QSL	Can you acknowledge receipt?
QSM	Shall I repeat the last message sent?
QSO	Can you communicate with.....direct?
QSP	Will you relay to.....?
QSV	Shall I send a series of V's?
QSW	Will you transmit on.....?
QSX	Will you listen for.....on.....?
QSY	Shall I change frequency?
QSZ	Shall I send each word/group more than once? (Answer, send twice or.....)
QTA	Shall I cancel number.....?
QTB	Do you agree with my word count? (Answer negative)
QTC	How many messages have you to send?
QTH	What is your location?
QTR	What is your time?
QTV	Shall I stand guard for you.....?
QTX	Will you keep your station open for further communication with me?
QUA	Have you news of.....?

ITU PHONETIC ALPHABET

Word list adopted by the International Telecommunication Union

A	ALFA	**N**	NOVEMBER
B	BRAVO	**O**	OSCAR
C	CHARLIE	**P**	PAPA
D	DELTA	**Q**	QUEBEC
E	ECHO	**R**	ROMEO
F	FOXTROT	**S**	SIERRA
G	GOLF	**T**	TANGO
H	HOTEL	**U**	UNIFORM
I	INDIA	**V**	VICTOR
J	JULIET	**W**	WHISKEY
K	KILO	**X**	X-RAY
L	LIMA	**Y**	YANKEE
M	MIKE	**Z**	ZULU

IN AN EMERGENCY

Monitor your local emergency frequency.

Make contact with your local EC or RO.

Take immediate steps to follow any prearranged plans.

Stay off the air unless or until you are *sure* you can be of assistance.

In widespread emergencies, monitor W1AW for latest bulletins and news.

TIME CONVERSION CHART

UTC	EDT/AST	CDT/EST	MDT/CST	PDT/MST	PST
0000*	2000	1900	1800	1700	1600
0100	2100	2000	1900	1800	1700
0200	2200	2100	2000	1900	1800
0300	2300	2200	2100	2000	1900
0400	0000*	2300	2200	2100	2000
0500	0100	0000*	2300	2200	2100
0600	0200	0100	0000*	2300	2200
0700	0300	0200	0100	0000*	2300
0800	0400	0300	0200	0100	0000*
0900	0500	0400	0300	0200	0100
1000	0600	0500	0400	0300	0200
1100	0700	0600	0500	0400	0300
1200	0800	0700	0600	0500	0400
1300	0900	0800	0700	0600	0500
1400	1000	0900	0800	0700	0600
1500	1100	1000	0900	0800	0700
1600	1200	1100	1000	0900	0800
1700	1300	1200	1100	1000	0900
1800	1400	1300	1200	1100	1000
1900	1500	1400	1300	1200	1100
2000	1600	1500	1400	1300	1200
2100	1700	1600	1500	1400	1300
2200	1800	1700	1600	1500	1400
2300	1900	1800	1700	1600	1500
2400	2000	1900	1800	1700	1600

Coordinated Universal Time (UTC) is the time at the zero or reference meridian. Time changes one hour with each change of 15° in longitude. The five time zones in the U.S. proper and Canada roughly follow these lines.

*0000 and 2400 are interchangeable. 2400 is associated with the date of the day ending. 0000 with the day just starting.

THE R-S-T SYSTEM

READABILITY

1—Unreadable.
2—Barely readable, occasional words distinguishable.
3—Readable with considerable difficulty.
4—Readable with practically no difficulty.
5—Perfectly readable.

SIGNAL STRENGTH

1—Faint signals, barely perceptible.
2—Very weak signals.
3—Weak signals.
4—Fair signals.
5—Fairly good signals.
6—Good signals.
7—Moderately strong signals.
8—Strong signals.
9—Extremely strong signals.

TONE

1—Sixty cycle ac or less, very rough and broad.
2—Very rough ac, very harsh and broad.
3—Rough ac tone, rectified but not filtered.
4—Rough note, some trace of filtering.
5—Filtered rectified ac, but strongly ripply-modulated.
6—Filtered tone, definite trace of ripple modulation.
7—Near pure tone, trace of ripple modulation.
8—Near perfect tone, slight trace of modulation.
9—Perfect tone, no trace of ripple, or modulation of any kind.

If the signal has the characteristic steadiness of crystal control, add the letter X to the RST report. If there is a chirp, the letter C may be added to so indicate. Similarly for a click, add K. The above reporting system is used on both CW and voice, leaving out the "tone" report on voice.

A
R
R
L